Water-Data Report 2007

12354000 ST. REGIS RIVER NEAR ST. REGIS, MT

Pend Oreille Basin
Middle Clark Fork Subbasin

LOCATION.--Lat 47°17′49″, long 115°07′18″ referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.26, T.18 N., R.28 W., Mineral County, MT, Hydrologic Unit 17010204, on left bank 50 ft downstream from road bridge, 500 ft upstream from Little Joe Creek, 1.2 mi west of St. Regis, and at river mile 1.7.

DRAINAGE AREA.--303 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1910 to September 1917 (no winter records), annual maximum, water year 1948, published in Water Supply Paper (WSP) 1080, September 1958 to September 1975, February 2002 to current year. Monthly discharge only for some periods, published in WSP 1316 and 1736.

REVISED RECORDS.-- Water Supply Paper (WSP) 1246: water year 1912; WSP 1316: drainage area, 1911.

GAGE.--Water-stage recorder. Elevation of gage is 2,645.00 ft, referenced to the National Geodetic Vertical Datum of 1929. September 1910 to September 1917, non-recording gage at site 2 mi upstream at different elevation.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Minor diversions for irrigation for hay meadows occur above station. Bureau of Reclamation satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on or about Dec. 20, 1933, reached a stage of about 14.5 ft, from information by local residents (discharge unknown). Flood of May 19, 1954, reached a discharge of about 11,000 ft^3/s, gage height, 9.4 ft, from rating curve extended above 5,100 ft^3/s.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	90	84	248	205	e150	241	1,260	1,550	812	239	109	84
2	89	86	235	210	e155	205	1,170	1,650	851	229	108	83
3	89	97	222	251	e150	236	1,080	1,650	854	220	105	80
4	89	149	219	253	e155	234	1,010	1,510	840	213	103	78
5	88	240	222	237	e165	235	965	1,360	847	207	103	76
6	88	457	213	233	184	241	934	1,230	760	200	102	75
7	87	1,850	208	229	182	259	956	1,180	696	194	101	74
8	89	1,230	206	243	183	346	1,020	1,250	620	188	100	74
9	88	658	205	235	189	382	1,140	1,470	570	184	100	74
10	89	464	203	239	190	394	1,220	1,610	615	178	97	75
11	88	388	202	e203	193	435	1,140	1,640	581	170	95	74
12	88	341	215	e168	199	971	1,080	1,690	523	163	94	72
13	87	334	230	e175	199	2,000	1,020	1,740	484	159	92	71
14	86	321	244	e168	199	1,670	1,020	1,690	458	156	90	70
15	87	278	337	e165	203	1,320	1,050	1,510	431	152	88	70
16	97	366	318	e170	252	1,180	1,030	1,470	413	148	86	70
17	99	340	238	e175	249	1,120	1,110	1,580	420	146	86	69
18	93	292	217	e175	268	1,250	1,130	1,650	432	167	84	71
19	94	265	e194	e175	278	1,450	1,090	1,560	385	151	84	78
20	114	371	e195	e175	300	1,590	1,010	1,400	358	147	89	77
21	106	456	e197	e178	292	1,570	963	1,250	341	142	99	80
22	98	438	e198	200	281	1,440	935	1,100	329	138	101	78
23	96	406	e197	198	276	1,310	932	1,010	313	134	94	77
24	94	386	e200	199	263	1,240	1,020	960	300	130	90	87
25	92	352	226	190	259	1,670	1,120	947	304	128	88	82
26	91	319	239	179	256	2,060	1,180	880	288	125	85	78
27	90	312	239	166	248	1,830	1,220	894	270	122	85	76
28	89	280	228	153	245	1,610	1,320	918	257	117	83	75
29	90	253	216	e150	---	1,430	1,480	838	248	114	82	77
30	96	240	200	e145	---	1,330	1,520	790	249	112	81	78
31	89	---	193	e150	---	1,290	---	782	---	110	79	---
Total	2,850	12,053	6,904	5,992	6,163	32,539	33,125	40,759	14,849	4,983	2,883	2,283
Mean	91.9	402	223	193	220	1,050	1,104	1,315	495	161	93.0	76.1
Max	114	1,850	337	253	300	2,060	1,520	1,740	854	239	109	87
Min	86	84	193	145	150	205	932	782	248	110	79	69
Ac-ft	5,650	23,910	13,690	11,890	12,220	64,540	65,700	80,850	29,450	9,880	5,720	4,530
Cfsm	0.30	1.33	0.74	0.64	0.73	3.46	3.64	4.34	1.63	0.53	0.31	0.25
In.	0.35	1.48	0.85	0.74	0.76	3.99	4.07	5.00	1.82	0.61	0.35	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2007, BY WATER YEAR (WY) *

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	137	226	206	264	288	433	1,221	2,070	1,420	371	156	126
Max	350	590	555	1,363	759	1,366	2,057	4,700	3,367	1,150	313	204
(WY)	(1960)	(1915)	(1959)	(1974)	(1971)	(1972)	(1916)	(1917)	(1974)	(1916)	(1916)	(1914)
Min	85.1	101	92.4	89.2	86.6	94.2	349	671	388	155	83.1	74.3
(WY)	(2004)	(1962)	(1964)	(2004)	(1964)	(1964)	(1975)	(1915)	(1915)	(1973)	(1973)	(2005)

* During periods of operation [September 1910 to September 1917 (no winter records), September 1958 to September 1975, February 2002 to current year].

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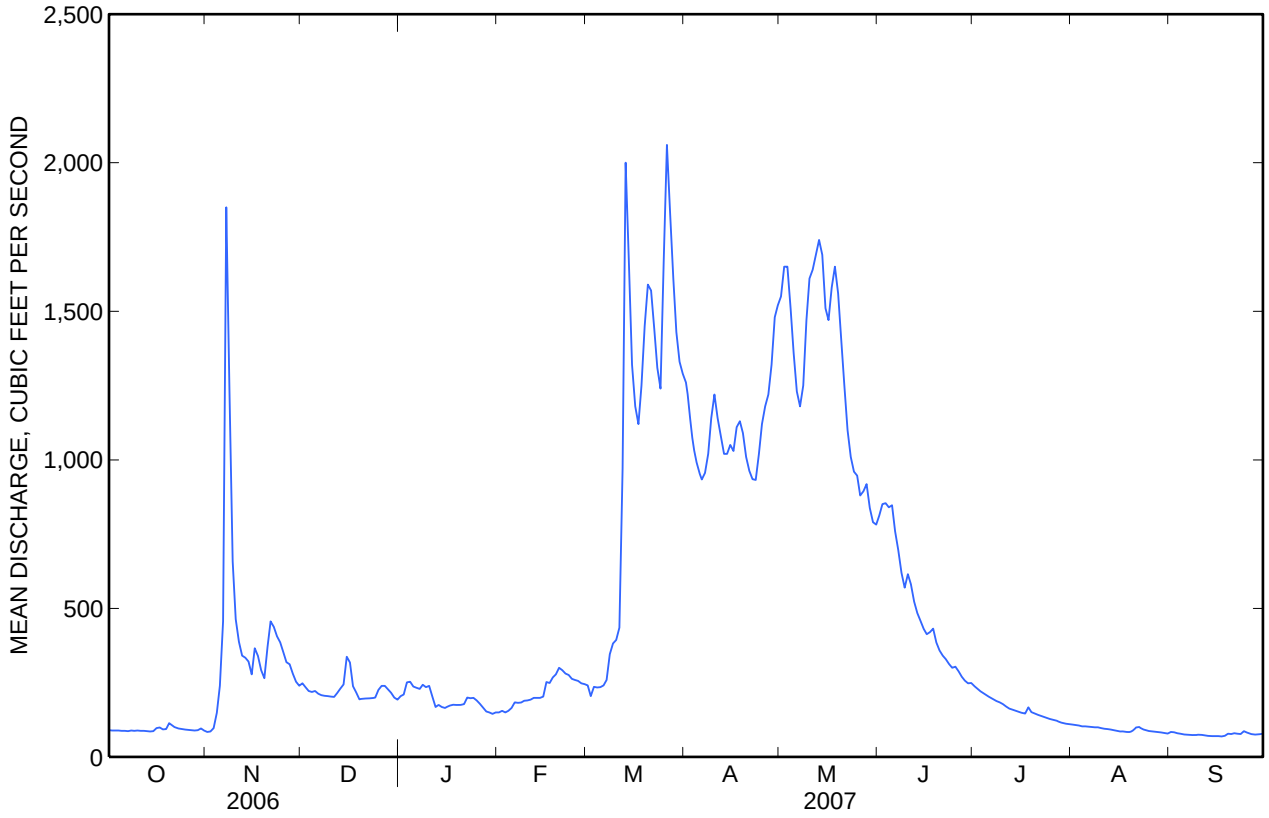
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1910 - 2007*	
Annual total	198,046		165,383			
Annual mean	543		453		543	
Highest annual mean					938	1974
Lowest annual mean					256	1973
Highest daily mean	3,580	May 18	2,060	Mar 26	8,500	Jan 16, 1974
Lowest daily mean	84	Nov 1	69	Sep 17	45	Dec 11, 1961
Annual seven-day minimum	88	Oct 9	70	Sep 12	59	Dec 5, 1972
Maximum peak flow			2,260	Mar 26	[b]9,640	Jan 16, 1974
Maximum peak stage			6.01	Mar 26	7.54	Apr 14, 2002
Instantaneous low flow			[a]68	Sep 17	[c]41	Dec 30, 2001
Annual runoff (ac-ft)	392,800		328,000		393,300	
Annual runoff (cfsm)	1.79		1.50		1.79	
Annual runoff (inches)	24.31		20.30		24.35	
10 percent exceeds	1,590		1,270		1,480	
50 percent exceeds	239		222		213	
90 percent exceeds	96		85		96	

* During periods of operation [September 1910 to September 1917 (no winter records), September 1958 to September 1975, February 2002 to current year].

[a] Gage height, 2.70 ft.

[b] Gage height, 7.38 ft.

[c] Result of freezeup.